EXHIBIT 62

Kubernetes version 1.29 change log

Last updated 2024-08-15

View information about version changes for major, minor, and patch updates that are available for your IBM Cloud® Kubernetes Service clusters that run version 1.29. Changes include updates to Kubernetes and IBM Cloud Provider components.

Overview

In clusters that run version 1.23 or earlier, the IBM Cloud provider version enables Kubernetes APIs and features that are at beta. Most new beta features are disabled by default. Kubernetes alpha features, which are subject to change, are disabled in all versions. For more information, see the Default service settings for Kubernetes components and the feature gates for each version.

Tip: For more information about major, minor, and patch versions and preparation actions between minor versions, see Kubernetes versions.

Check the Security Bulletins on IBM Cloud Status for security vulnerabilities that affect IBM Cloud Kubernetes Service. You can filter the results to view only Kubernetes Cluster security bulletins that are relevant to IBM Cloud Kubernetes Service. Change log entries that address other security vulnerabilities but don't also refer to an IBM security bulletin are for vulnerabilities that are not known to affect IBM Cloud Kubernetes Service in normal usage. If you run privileged containers, run commands on the workers, or execute untrusted code, then you might be at risk.

Note: Some change logs are for *worker node fix packs*, and apply only to worker nodes. You must apply these patches to ensure security compliance for your worker nodes. These worker node fix packs can be at a higher version than the master because some build fix packs are specific to worker nodes. Other change logs are for *master fix packs*, and apply only to the cluster master. Master fix packs might not be automatically applied. You can choose to apply them manually. For more information about patch types, see Update types.

Version 1.29 change log

Review the version 1.29 change log.

Change log for worker node fix pack 1.29.7_1555, released 12 August 2024

The following table shows the changes that are in the worker node fix pack 1.29.7_1555. Worker node patch updates can be applied by updating, reloading (in classic infrastructure), or replacing (in VPC infrastructure) the worker node.

Component	Previous	Current	Description
Ubuntu 20.04 packages	5.4.0-190-generic	5.4.0-192-generic	Worker node kernel & package updates for CVE-2022-48655, CVE-2022-48674, CVE-2023-52752, CVE-2024-0397, CVE-2024-2511, CVE-2024-26583, CVE-2024-26584, CVE-2024-26585, CVE-2024-26886, CVE-2024-26907, CVE-2024-27019, CVE-2024-36016, CVE-2024-37370, CVE-2024-37371, CVE-2024-4032, CVE-2024-4741, CVE-2024-5535, CVE-2024-7264.

| RHEL 8 Packages | 4.18.0-553.8.1.el8_10 | 4.18.0-553.16.1.el8_10 | Package updates for RHSA-2024:5101, CVE-2021-46939, CVE-2021-47018, CVE-2021-47257, CVE-2021-47284, CVE-2021-47304, CVE-2021-47373, CVE-2021-47408, CVE-2021-47461, CVE-2021-47468, CVE-2021-47491, CVE-2021-

52623, CVE-2023-52648, CVE-2023-52653, CVE-2023-52658, CVE-2023-52662, CVE-2023-52679, CVE-2023-52707, CVE-2023-52730, CVE-2023-52756, CVE-2023-52762, CVE-2023-52764, CVE-2023-52775, CVE-2023-52777, CVE-2023-52784, CVE-2023-52791, CVE-2023-52796, CVE-2023-52803, CVE-2023-52811, CVE-2023-52832, CVE-2023-52834, CVE-2023-52845, CVE-2023-52847, CVE-2023-52864, CVE-2024-21823, CVE-2024-2201, CVE-2024-25739, CVE-2024-26586, CVE-2024-26614, CVE-2024-26640, CVE-2024-26660, CVE-2024-26669, CVE-2024-26686, CVE-2024-26698, CVE-2024-26704, CVE-2024-26733, CVE-2024-26740, CVE-2024-26772, CVE-2024-26773, CVE-2024-26802, CVE-2024-26810, CVE-2024-26837, CVE-2024-26840, CVE-2024-26843, CVE-2024-26852, CVE-2024-26853, CVE-2024-26870, CVE-2024-26878, CVE-2024-26908, CVE-2024-26921, CVE-2024-26925, CVE-2024-26940, CVE-2024-26958, CVE-2024-26960, CVE-2024-26961, CVE-2024-27010, CVE-2024-27011, CVE-2024-27019, CVE-2024-27020, CVE-2024-27025, CVE-2024-27065, CVE-2024-27388, CVE-2024-27395, CVE-2024-27434, CVE-2024-31076, CVE-2024-33621, CVE-2024-35790, CVE-2024-35801, CVE-2024-35807, CVE-2024-35810, CVE-2024-35814, CVE-2024-35823, CVE-2024-35824, CVE-2024-35847, CVE-2024-35876, CVE-2024-35893, CVE-2024-35896, CVE-2024-35897, CVE-2024-35899, CVE-2024-35900, CVE-2024-35910, CVE-2024-35912, CVE-2024-35924, CVE-2024-35925, CVE-2024-35930, CVE-2024-35937, CVE-2024-35938, CVE-2024-35946, CVE-2024-35947, CVE-2024-35952, CVE-2024-36000, CVE-2024-36005, CVE-2024-36006, CVE-2024-36010, CVE-2024-36016, CVE-2024-36017, CVE-2024-36020, CVE-2024-36025, CVE-2024-36270, CVE-2024-36286, CVE-2024-36489, CVE-2024-36886, CVE-2024-36889, CVE-2024-36896, CVE-2024-36904, CVE-2024-36905, CVE-2024-36917, CVE-2024-36921, CVE-2024-36927, CVE-2024-36929, CVE-2024-36933, CVE-2024-36940, CVE-2024-36941, CVE-2024-36945, CVE-2024-36950, CVE-2024-36954, CVE-2024-36960, CVE-2024-36971, CVE-2024-36978, CVE-2024-36979, CVE-2024-38538, CVE-2024-38555, CVE-2024-38573, CVE-2024-38575, CVE-2024-38596, CVE-2024-38598, CVE-2024-38615, CVE-2024-38627, CVE-2024-39276, CVE-2024-39472, CVE-2024-39476, CVE-2024-39487, CVE-2024-39502, CVE-2024-40927, CVE-2024-40974, RHSA-2024:3043, CVE-2024-0690. | | GPU device plug-in and installer | 47ed2ef |4bd77eb| Updates for CVE-2019-11236, CVE-2019-20916, CVE-2020-26137, CVE-2021-3572, CVE-2022-40897, CVE-2023-32681, CVE-2023-43804, CVE-2023-45803, CVE-2024-37891, CVE-2024-6345, CVE-2023-52803. |

Change log for master fix pack 1.29.7_1553, released 31 July 2024

The following table shows the changes that are in the master fix pack 1.29.7_1553. Master patch updates are applied automatically.

Component	Previous	Current	Description
Calico	v3.27.2	v3.27.4	See the Calico release notes.
Cluster health image	v1.4.11	v1.5.7	New version contains updates and security fixes.
etcd	v3.5.13	v3.5.14	See the etcd release notes.
IBM Cloud Block Storage driver and plug-in	v2.5.9	v2.5.12	New version contains updates and security fixes.
IBM Cloud Controller Manager	v1.29.5-5	v1.29.7-1	New version contains updates and security fixes.
IBM Cloud File Storage for Classic for Classic plug-in and monitor	443	445	New version contains updates and security fixes.
IBM Cloud RBAC Operator	14d0ab5	312030f	New version contains updates and security fixes.
Key Management Service provider	v2.9.7	v2.9.8	New version contains updates and security fixes.
Kubernetes	v1.29.6	v1.29.7	See the Kubernetes release notes.
Load balancer and load balancer monitor for IBM Cloud Provider	2933	2967	New version contains updates and security fixes.
Portieris admission controller	v0.13.16	v0.13.17	See the Portieris admission controller release notes.
Tigera Operator	v1.32.5-91-iks	v1.32.10-109-iks	See the Tigera Operator release notes.

Changes since version 1.29.6_1545

Change log for worker node fix pack 1.29.7_1554, released 29 July 2024

The following table shows the changes that are in the worker node fix pack 1.29.7_1554. Worker node patch updates can be applied by updating, reloading (in classic infrastructure), or replacing (in VPC infrastructure) the worker node.

Component	Previous	Current	Description
Ubuntu 20.04 packages	5.4.0-189-generic	5.4.0-190-generic	Worker node kernel & package updates for CVE-2022-48655, CVE-2024-0760, CVE-2024-1737, CVE-2024-1975, CVE-2024-26583, CVE-2024-26584, CVE-2024-26585, CVE-2024-26907, CVE-2024-36016, CVE-2024-4076, CVE-2024-5569.
Ubuntu 24.04 packages	6.8.0-38-generic	6.8.0-39-generic	Worker node kernel & package updates for CVE-2024-0760, CVE-2024-1737, CVE-2024-1975, CVE-2024-25742, CVE-2024-35984, CVE-2024-35990, CVE-2024-35992, CVE-2024-35997, CVE-2024-36008, CVE-2024-36016, CVE-2024-4076.
Containerd	1.7.19	1.7.20	For more information, see the change logs.
Kubernetes	1.29.6	1.29.7	For more information, see the change logs.
GPU device plug-in and installer	184b5e2	47ed2ef	Security fixes for CVE-2024-4032.
Haproxy	N/A	N/A	N/A

Changes since version 1.29.6_1548

Change log for worker node fix pack 1.29.6_1548, released 15 July 2024

The following table shows the changes that are in the worker node fix pack 1.29.6_1548. Worker node patch updates can be applied by updating, reloading (in classic infrastructure), or replacing (in VPC infrastructure) the worker node.

Component	Previous	Current	Description
Ubuntu 20.04 packages	5.4.0-187-generic	5.4.0-189-generic	Worker node kernel & package updates for CVE-2023-6270, CVE-2023-6597, CVE-2024-0450, CVE-2024-2201, CVE-2024-23307, CVE-2024-24861, CVE-2024-26586, CVE-2024-26642, CVE-2024-26643, CVE-2024-26828, CVE-2024-26889, CVE-2024-26922, CVE-2024-26923, CVE-2024-26925, CVE-2024-26926.
Ubuntu 24.04 packages	6.8.0-36-generic	6.8.0-38-generic	Worker node kernel & package updates for CVE-2024-26922, CVE-2024-26924, CVE-2024-26926, CVE-2024-39894.
Containerd	1.7.18	1.7.19	For more information, see the change logs.
HAProxy	e77d4ca	c91c765	Security fixes for CVE-2024-28182, CVE-2024-25062.
GPU device plug-in and installer	fbdf629	184b5e23	Security fixes for CVE-2023-45288, CVE-2021-47069, CVE-2024-26801, CVE-2024-35854, CVE-2024-35960, CVE-2023-2953, CVE-2024-26584, CVE-2024-26759, CVE-2024-35890, CVE-2024-26982, CVE-2024-35835, CVE-2021-46972, CVE-2021-47353, CVE-2021-47356, CVE-2024-26675, CVE-2021-47236, CVE-2023-52781, CVE-2024-26656, CVE-2021-47311, CVE-2023-52675, CVE-2024-35789, CVE-2024-35958, CVE-2021-47456, CVE-2024-26583, CVE-2024-26974, CVE-2024-36004, CVE-2021-47073, CVE-2023-52464, CVE-2023-52667, CVE-2024-35838, CVE-2024-26906, CVE-2024-27410, CVE-2024-28182, CVE-2023-52560, CVE-2023-52615, CVE-2023-52686, CVE-2023-52700, CVE-2023-52669, CVE-2024-26804, CVE-2024-26859, CVE-2024-35853, CVE-2024-35852, CVE-2023-52813, CVE-2023-52881, CVE-2024-26735, CVE-2024-26826, CVE-2023-52703, CVE-2024-26907, CVE-2021-46909, CVE-2023-52877, CVE-2024-27397, CVE-2024-3651, CVE-2021-47495, CVE-2023-52626, CVE-2024-35959, CVE-2024-36007, CVE-2024-35845, CVE-2024-35855, CVE-2024-35888, CVE-2021-47310, CVE-2023-52835, CVE-2023-52878, CVE-2024-26585, CVE-2020-26555, CVE-2023-5090.

Changes since version 1.29.6_1547

Change log for worker node fix pack 1.29.6_1547, released 09 July 2024

The following table shows the changes that are in the worker node fix pack 1.29.6_1547. Worker node patch updates can be applied by updating, reloading (in classic infrastructure), or replacing (in VPC infrastructure) the worker node.

Component	Previous	Current	Description
Ubuntu 20.04 packages	5.4.0-186-generic	5.4.0-187-generic	Worker node kernel & package updates for CVE-2022-4968, CVE-2024-2201, CVE-2024-26643, CVE-2024-26925, CVE-2024-32002, CVE-2024-38428.
Ubuntu 24.04 packages	6.8.0-35-generic	6.8.0-36-generic	Worker node kernel & package updates for CVE-2022-4968, CVE-2024-26924, CVE-2024-38428, CVE-2024-6387.
HAProxy	18889dd	e77d4ca	New version contains security fixes
GPU device plug-in and installer	8ef78ef	fbdf629	New version contains updates and security fixes.

Changes since version 1.29.6_1546

Change log for master fix pack 1.29.6_1545, released 19 June 2024

The following table shows the changes that are in the master fix pack 1.29.6_1545. Master patch updates are applied automatically.

Component	Previous	Current	Description
Cluster health image	v1.4.10	v1.4.11	New version contains updates and security fixes.
IBM Cloud Controller Manager	v1.29.5-1	v1.29.5-5	New version contains updates and security fixes.
IBM Cloud Metrics Server Config Watcher	v1.1.3	v1.1.4	New version contains updates and security fixes.
IBM Cloud RBAC Operator	4c5d156	14d0ab5	New version contains updates and security fixes.
Key Management Service provider	v2.9.6	v2.9.7	New version contains updates and security fixes.
Kubernetes	v1.29.5	v1.29.6	See the Kubernetes release notes.
Kubernetes NodeLocal DNS cache	1.23.0	1.23.1	See the Kubernetes NodeLocal DNS cache release notes.
Portieris admission controller	v0.13.15	v0.13.16	See the Portieris admission controller release notes.

Changes since version 1.29.5_1540

Change log for worker node fix pack 1.29.6_1546, released 18 June 2024

The following table shows the changes that are in the worker node fix pack 1.29.6_1546. Worker node patch updates can be applied by updating, reloading (in classic infrastructure), or replacing (in VPC infrastructure) the worker node.

Component	Previous	Current	Description
Ubuntu 20.04 packages	5.4.0-182-generic	5.4.0-186-generic	Worker node kernel and package updates CVE-2021-47063, CVE-2021-47070, CVE-2023-47233, CVE-2023-52530, CVE-2024-26614, CVE-2024-26622, CVE-2024-26712, CVE-2024-26733, CIS benchmark compliance: 1.5.4, 1.5.5, 4.5.5, 3.3.4, 3.3.9, 1.1.1.2, 1.1.1.3, 1.1.1.4, 1.1.1.5.
Ubuntu 24.04 packages	N/A	6.8.0-35-generic	N/A
Kubernetes	1.29.5	1.29.6	For more information, see the change logs.
Containerd	1.7.17	1.7.18	For more information, see the change logs.
HAProxy	0062a3c	18889dd	Security fixes for CVE-2024-25062.
GPU device plug-in and installer	fdf201e	8ef78ef	Security fixes for CVE-2019-25162, CVE-2020-36777, CVE-2021-46934, CVE-2021-47013, CVE-2021-47055, CVE-2021-47118, CVE-2021-47153, CVE-2021-47171, CVE-2021-47185, CVE-2022-48627, CVE-2022-48669, CVE-2023-52439, CVE-2023-52445, CVE-2023-52477, CVE-2023-52513, CVE-2023-52520, CVE-2023-52528, CVE-2023-52565, CVE-2023-52578, CVE-2023-52594, CVE-2023-52595, CVE-2023-52598, CVE-2023-52606, CVE-2023-52607, CVE-2023-52610, CVE-2023-6240, CVE-2024-0340, CVE-2024-23307, CVE-2024-25744, CVE-2024-26593, CVE-2024-26603, CVE-2024-26610, CVE-2024-26615, CVE-2024-26642, CVE-2024-26643, CVE-2024-26659, CVE-2024-26664, CVE-2024-26693, CVE-2024-26694, CVE-2024-26743, CVE-2024-26744, CVE-2024-26779, CVE-2024-26872, CVE-2024-26892, CVE-2024-26897, CVE-2024-26901, CVE-2024-26919, CVE-2024-26933, CVE-2024-26934, CVE-2024-26964, CVE-2024-26973, CVE-2024-26993, CVE-2024-27014, CVE-2024-27048, CVE-2024-27052, CVE-2024-27056, CVE-2024-27059, CVE-2024-25062.

Changes since version 1.29.5_1541

Change log for worker node fix pack 1.29.5_1541, released 03 June 2024

The following table shows the changes that are in the worker node fix pack 1.29.5_1541. Worker node patch updates can be applied by updating, reloading (in classic infrastructure), or replacing (in VPC infrastructure) the worker node.

Component	Previous	Current	Description
Ubuntu 20.04 packages	5.4.0-182-generic	5.4.0-182-generic	Worker node package updates CVE-2023-22745, CVE-2024-32004, CVE-2024-32020, CVE-2024-32021, CVE-2024-32465, CVE-2024-33599, CVE-2024-33600, CVE-2024-33601, CVE-2024-33602, CVE-2024-34064, CVE-2024-3651.
Kubernetes	1.29.4	1.29.5	For more information, see the change logs.
Containerd	1.7.17	1.7.17	N/A
HAProxy	e88695e	0062a3c	Security fixes for CVE-2024-0450, CVE-2024-33599, CVE-2024-26461, CVE-2021-43618, CVE-2024-22365, CVE-2023-6597, CVE-2024-26458, CVE-2024-2961, CVE-2024-33601, CVE-2024-33602, CVE-2023-7008, CVE-2023-6004, CVE-2023-6918, CVE-2024-33600.
GPU device plug-in and installer	806184d	fdf201e	Security fixes for CVE-2024-33602, CVE-2024-28182, CVE-2024-2961, CVE-2024-33599, CVE-2024-33600, CVE-2024-33601.

Changes since version 1.29.4_1538

Change log for master fix pack 1.29.5_1540, released 29 May 2024

The following table shows the changes that are in the master fix pack 1.29.5_1540. Master patch updates are applied automatically.

Component	Previous	Current	Description
Cluster health image	v1.4.9	v1.4.10	New version contains updates and security fixes.
IBM Cloud Block Storage driver and plug-in	v2.5.8	v2.5.9	New version contains updates and security fixes.
IBM Cloud Controller Manager	v1.29.4-1	v1.29.5-1	New version contains updates and security fixes.
IBM Cloud File Storage for Classic for Classic plug-in and monitor	442	443	New version contains updates and security fixes.
IBM Cloud Metrics Server Config Watcher	v1.1.2	v1.1.3	New version contains updates and security fixes.
Key Management Service provider	v2.9.5	v2.9.6	New version contains updates and security fixes.
Konnectivity server and agent	v0.29.0	v0.29.2_105_iks	See the Konnectivity release notes.
Kubernetes	v1.29.4	v1.29.5	See the Kubernetes release notes.
Load balancer and load balancer monitor for IBM Cloud Provider	2867	2933	New version contains updates and security fixes.
Portieris admission controller	v0.13.13	v0.13.15	See the Portieris admission controller release notes.

Changes since version 1.29.4_1535

Change log for worker node fix pack 1.29.4_1538, released 23 May 2024

The following table shows the changes that are in the worker node fix pack 1.29.4_1538. Worker node patch updates can be applied by updating, reloading (in classic infrastructure), or replacing (in VPC infrastructure) the worker node.

Component	Previous	Current	Description
Ubuntu 20.04 packages	5.4.0-177-generic	5.4.0-182-generic	Worker node package and kernel updates CVE-2016-9840, CVE-2016-9841, CVE-2018-25032, CVE-2022-37434, CVE-2023-23000, CVE-2023-23004, CVE-2023-24023, CVE-2023-4421, CVE-2023-46838, CVE-2023-52600, CVE-2023-52603, CVE-2023-5388, CVE-2023-6135, CVE-2024-0607, CVE-2024-1086, CVE-2024-23851, CVE-2024-24855, CVE-2024-26581, CVE-2024-26589, CVE-2024-28085, CVE-2024-28834, CVE-2024-2961, CIS benchmark compliance: 4.5.1.6, 4.5.1.7, 4.5.7.
Kubernetes	1.29.4	1.29.4	N/A
Containerd	1.7.16	1.7.17	For more information, see the change logs.
HAProxy	d225100	4e826da	CVE-2024-2961, CVE-2024-28834.
GPU device plug-in and installer	806184d	c0e1605	Security fixes for CVE-2024-2961.

Changes since version 1.29.4_1537

Change log for worker node fix pack 1.29.4_1537, released 06 May 2024

The following table shows the changes that are in the worker node fix pack 1.29.4_1537. Worker node patch updates can be applied by updating, reloading (in classic infrastructure), or replacing (in VPC infrastructure) the worker node.

Component	Previous	Current	Description
Ubuntu 20.04 packages	5.4.0-177-generic	5.4.0-177-generic	Worker node package updates for CVE-2015-1197, CVE-2023-7207, CVE-2024-28182, CVE-2024-32487. CIS benchmark compliance: 1.1.2.1, 1.1.2.2, 1.1.2.3, and 1.1.2.4.
Kubernetes	1.29.4	1.29.4	N/A
Containerd	1.7.15	1.7.16	For more information, see the change logs.
HAProxy	295dba8	295dba8	N/A
GPU device plug-in and installer	9fad43c	806184d	Security fixes for CVE-2022-48554, CVE-2023-2975, CVE-2023-3446, CVE-2023-5678, CVE-2024-22365, CVE-2023-7008, CVE-2023-3817, CVE-2023-6129, CVE-2023-6237, CVE-2024-0727.

Changes since version 1.29.4_1536

Change log for master fix pack 1.29.4_1535, released 24 April 2024

The following table shows the changes that are in the master fix pack 1.29.4_1535. Master patch updates are applied automatically.

Component	Previous	Current	Description
Calico	v3.27.3	v3.27.2	See the Calico release notes.
Cluster health image	v1.4.8	v1.4.9	New version contains updates and security fixes.
etcd	v3.5.12	v3.5.13	See the etcd release notes.
IBM Cloud Controller Manager	v1.29.3-1	v1.29.4-1	New version contains updates and security fixes.
IBM Cloud Metrics Server Config Watcher	v1.1.1	v1.1.2	New version contains updates and security fixes.
IBM Cloud RBAC Operator	bd30030	4c5d156	New version contains updates and security fixes.
Key Management Service provider	v2.9.4	v2.9.5	New version contains updates and security fixes.
Kubernetes	v1.29.3	v1.29.4	Update resolves CVE-2024-3177. For more information, see the Security Bulletin and the Kubernetes release notes.
Load balancer and load balancer monitor for IBM Cloud Provider	2831	2867	New version contains updates and security fixes.
Portieris admission controller	v0.13.12	v0.13.13	See the Portieris admission controller release notes.
Tigera Operator	v1.32.7-97-iks	v1.32.5-91-iks	See the Tigera Operator release notes.

Changes since version 1.29.3_1531

Change log for worker node fix pack 1.29.4_1536, released 22 April 2024

The following table shows the changes that are in the worker node fix pack 1.29.4_1536. Worker node patch updates can be applied by updating, reloading (in classic infrastructure), or replacing (in VPC infrastructure) the worker node.

Component	Previous	Current	Description
Ubuntu 20.04 packages	5.4.0-174-generic	5.4.0-177-generic	Worker node and kernel package updates for CVE-2016-9840, CVE-2016-9841, CVE-2018-25032, CVE-2022-37434, CVE-2023-23000, CVE-2023-23004, CVE-2023-24023, CVE-2023-4421, CVE-2023-46838, CVE-2023-52600, CVE-2023-52603, CVE-2023-5388, CVE-2023-6135, CVE-2024-0607, CVE-2024-1086, CVE-2024-23851, CVE-2024-24855, CVE-2024-26581, CVE-2024-26589, CVE-2024-28085, CVE-2024-28834, CVE-2024-2961.
Kubernetes	1.29.3	1.29.4	For more information, see the change logs.
Containerd	1.7.13	1.7.15	For more information, see the change logs.
HAProxy	295dba8	4e826da	Security fixes for CVE-2024-28834.
GPU device plug-in and installer	206b5a6	9fad43c1	Security fixes for CVE-2024-1488, CVE-2024-28834, CVE-2024-28835.

Changes since version 1.29.3_1533

Change log for worker node fix pack 1.29.3_1533, released 8 April 2024

The following table shows the changes that are in the worker node fix pack 1.29.3_1533. Worker node patch updates can be applied by updating, reloading (in classic infrastructure), or replacing (in VPC infrastructure) the worker node.

Component	Previous	Current	Description
Ubuntu 20.04 packages	5.4.0-174-generic	5.4.0-174-generic	Worker node package updates for CVE-2024-2398, CVE-2024-28085.
Kubernetes	1.29.3	1.29.3	N/A
Containerd	1.7.14	1.7.13	Reverted due to a bug.
HAProxy	512b32a	295dba8	Security fixes for CVE-2023-28322, CVE-2023-38546, CVE-2023-46218, CVE-2023-52425
GPU device plug-in and installer	5b69345	206b5a6	Security fixes for CVE-2023-28322, CVE-2023-38546, CVE-2023-46218, CVE-2023-52425

Changes since version 1.29.3_1532

Change log for master fix pack 1.29.3_1531, released 27 March 2024

The following table shows the changes that are in the master fix pack 1.29.3_1531. Master patch updates are applied automatically.

Component	Previous	Current	Description
Calico	v3.27.0	v3.27.2	See the Calico release notes.
Cluster health image	v1.4.7	v1.4.8	New version contains updates and security fixes.
IBM Cloud Block Storage driver and plug-in	v2.5.7	v2.5.8	New version contains updates and security fixes.
IBM Cloud Controller Manager	v1.29.2-2	v1.29.3-1	New version contains updates and security fixes.
IBM Cloud File Storage for Classic plug-in and monitor	441	442	New version contains updates and security fixes.
IBM Cloud Metrics Server Config Watcher	v1.1.0	v1.1.1	New version contains updates and security fixes.
Key Management Service provider	v2.9.2	v2.9.4	New version contains updates and security fixes.
Kubernetes	v1.29.2	v1.29.3	See the Kubernetes release notes.
Kubernetes NodeLocal DNS cache	1.22.28	1.23.0	See the Kubernetes NodeLocal DNS cache release notes.
Load balancer and load balancer monitor for IBM Cloud Provider	2807	2831	New version contains updates and security fixes.
Portieris admission controller	v0.13.11	v0.13.12	See the Portieris admission controller release notes.
Tigera Operator	v1.32.4-82-iks	v1.32.5-91-iks	See the Tigera Operator release notes.

Changes since version 1.29.2_1528

Change log for worker node fix pack 1.29.3_1532, released 25 March 2024

The following table shows the changes that are in the worker node fix pack 1.29.3_1532. Worker node patch updates can be applied by updating, reloading (in classic infrastructure), or replacing (in VPC infrastructure) the worker node.

Component	Previous	Current	Description
Ubuntu 20.04 packages	5.4.0-173-generic	5.4.0-174-generic	Worker node kernel and package updates for CVE-2012-6655, CVE-2023-23000, CVE-2023-23004, CVE-2024-1086, CVE-2024-22667, CVE-2024-24855.
Kubernetes	1.29.2	1.29.3	For more information, see the change logs.
Containerd	1.7.14	1.7.14	N/A
HAProxy	512b32	512b32	N/A

Changes since version 1.29.2_1529

Change log for worker node fix pack 1.29.2_1529, released 13 March 2024

The following table shows the changes that are in the worker node fix pack 1.29.2_1529. Worker node patch updates can be applied by updating, reloading (in classic infrastructure), or replacing (in VPC infrastructure) the worker node.

Component	Previous	Current	Description
Ubuntu 20.04 packages	5.4.0-172-generic	5.4.0-173-generic	Worker node kernel and package updates for CVE-2022-47695, CVE-2022-48063, CVE-2022-48065, CVE-2022-48624, CVE-2023-0340, CVE-2023-22995, CVE-2023-50782, CVE-2023-51779, CVE-2023-51781, CVE-2023-51782, CVE-2023-6915, CVE-2024-0565, CVE-2024-0646, CVE-2024-24806, CVE-2024-25062.
Kubernetes	1.29.2	1.29.2	N/A
GPU device plug-in and installer	71cb7f	5b6934	N/A
HAProxy	9b0400	512b32	N/A
Containerd	1.7.13	1.7.14	For more information, see the change logs.

Changes since version 1.29.2_1530

Change log for master fix pack 1.29.2_1528, released 28 February 2024

The following table shows the changes that are in the master fix pack 1.29.2_1528. Master patch updates are applied automatically.

Component	Previous	Current	Description
Cluster health image	v1.4.6	v1.4.7	New version contains updates and security fixes.
IBM Cloud Block Storage driver and plug-in	v2.5.4	v2.5.7	New version contains updates and security fixes.
IBM Cloud Controller Manager	v1.29.1-7	v1.29.2-2	New version contains updates and security fixes.
IBM Cloud RBAC Operator	7185ea1	bd30030	New version contains updates and security fixes.
Key Management Service provider	v2.9.0	v2.9.2	New version contains updates and security fixes.
Kubernetes	v1.29.1	v1.29.2	See the Kubernetes release notes.
Load balancer and load balancer monitor for IBM Cloud Provider	2789	2807	New version contains updates and security fixes.
Tigera Operator	v1.32.4-74-iks	v1.32.4-82-iks	See the Tigera Operator release notes.

Changes since version 1.29.1_1524

Change log for worker node fix pack 1.29.2_1529, released 26 February 2024

The following table shows the changes that are in the worker node fix pack 1.29.2_1529. Worker node patch updates can be applied by updating, reloading (in classic infrastructure), or replacing (in VPC infrastructure) the worker node.

Component	Previous	Current	Description
Ubuntu 20.04 packages	N/A	5.4.0-172-generic	Worker node kernel & package updates for CVE-2023-4408, CVE-2023-4641, CVE-2023-50387, CVE-2023-50868, CVE-2023-51781, CVE-2023-5517, CVE-2023-6516, CVE-2023-6915, CVE-2024-0565, CVE-2024-0646.
GPU device plug-in and installer	d992fea	71cb7f7	Security fixes for CVE-2023-50387, CVE-2023-50868.
Containerd	N/A	1.7.13	N/A

Changes since version N/A

Change log for master fix pack 1.29.1_1524 and worker node fix pack 1.29.1_1525, released 14 February 2024

Component	Previous	Current	Description
Calico	v3.26.4	v3.27.0	See the Calico release notes.
Tigera Operator	N/A	v1.32.4-74-iks	**New:** See the Tigera Operator release notes.
etcd	v3.5.11	v3.5.12	See the etcd release notes.
IBM Calico extension	1525	N/A	Component has been removed.
IBM Cloud Block Storage driver and plug-in	v2.4.14	v2.5.4	New version contains updates and security fixes.
IBM Cloud Controller Manager	v1.28.6-3	v1.29.1-7	New version contains updates and security fixes.
IBM Cloud File Storage plug-in and monitor	439	441	New version contains updates and security fixes.
IBM Cloud Metrics Server Config Watcher	90a78ef	v1.1.0	New version contains updates and security fixes.
Key Management Service provider	v2.8.6	v2.9.0	New version contains updates and security fixes. In addition, both KMS v1 and v2 are now supported. KMS v1 instances are migrated to KMS v2 on upgrade and KMS v2 is now the default.
Konnectivity agent and server	v0.1.5_47_iks	v0.29.0	See the Konnectivity release notes.
Kubernetes	v1.28.6	v1.29.1	See the Kubernetes release notes.
Kubernetes configuration	N/A	N/A	See Default service settings for Kubernetes components.
Kubernetes snapshot controller	v6.2.2	v6.3.0	See the Kubernetes snapshot controller release notes.

Changes since version 1.28

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